

CLAIMS

What is claimed is:

1. A wall covering assembly for covering a structure, such as a wall or a ceiling, comprising:
a cover layer consisting of a fabric or paper where a vinyl coating is provided to one side and that this side confronts the viewer during use;
an intermediate layer made of an acrylic coating compound containing finely divided phase change material;
and a rear layer made of a liquid ceramic compound facing the wall during use.
2. A wall covering assembly according to claim 1, wherein the acrylic coating compound comprises phase change material in a quantity of up to 60 wt.%.
3. A wall covering assembly according to claim 1, wherein the intermediate layer made of an acrylic coating compound contains flame-retarding additives in addition to the phase change material.
4. A wall covering assembly according to claim 1, wherein the acrylic coating compound with the incorporated phase change material is coated onto the side of the fabric or paper where no vinyl coating is applied.
5. A wall covering assembly according to claim 1, wherein the ceramic layer is topically applied to the acrylic compound layer with incorporated phase change material by coating.
6. A wall covering assembly according to claim 1, wherein the phase change material is a crystalline alkyl hydrocarbon.
7. A wall covering assembly according to claim 1, wherein the phase change material is a salt hydrate.
8. A wall covering assembly according to claim 1, wherein the phase change materials have melting points in the range between 20 °C and 40 °C.
9. A wall covering assembly according to claim 1, wherein the phase change materials have melting points in the range between 25 °C and 35 °C.
10. A wall covering assembly according to claim 1, possessing a latent heat storage capacity between 20 kJ/m² and 40 kJ/m².